S Model QuietQube® Ice Machines with CVD® Technology

Installation Training

Overview

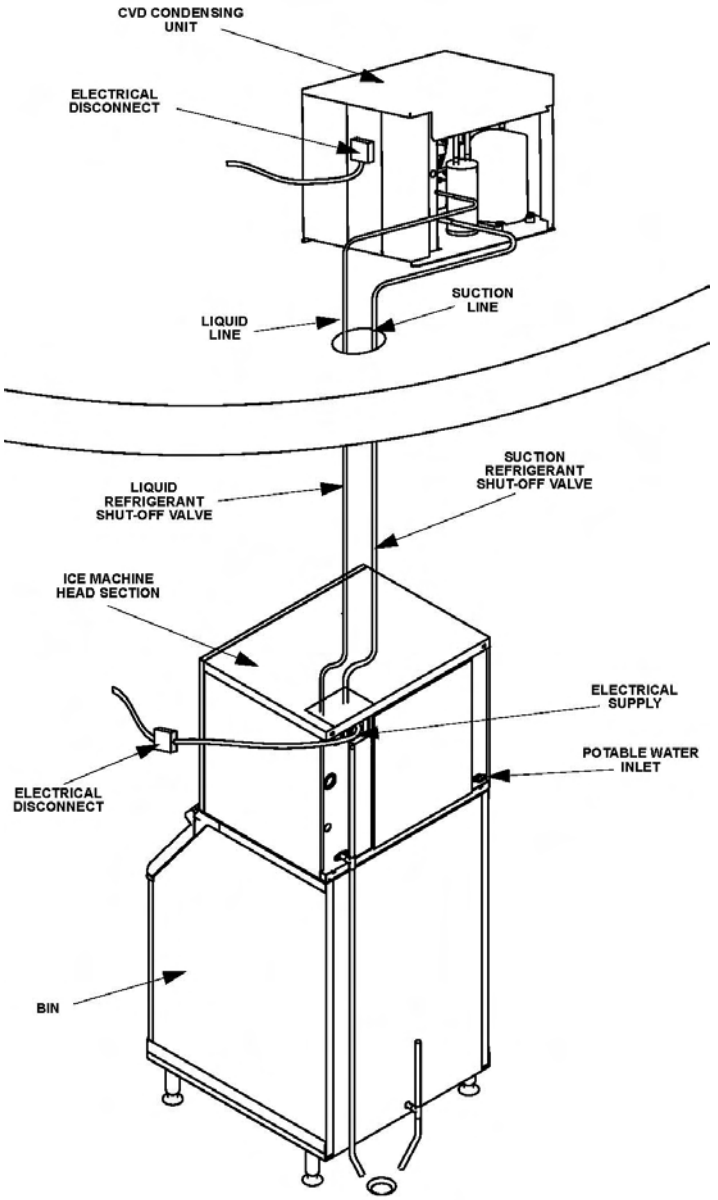
- Compressor, Condenser,
  Accumulator and HPCV are Outside

- Line Set is:
  - High Pressure Liquid Line
  - Low Pressure Suction Line

- Evaporator, Receiver and Harvest Valve in Head Section

No Interconnecting Control Wiring!

Typical QuietQube System Installation



Model Numbers

This training covers the following models:

Ice Machine Head Section	CVD Condensing Unit
SD0672C SY0674C	CVD0675
SD0872C SY0874C	CVD0885
SD1072C SY1074C	CVD1085
SD1272C SY1274C	CVD1285
SD1472C SY1474C	CVD1485
SD1872C SY1874C	CVD1885
SD2072C SY2074C	CVD2075

Important Information Prior to Installation

➢ Read Installation, Use & Care Manual

S Model QuietQube ice machines cannot be stacked.

Failure to follow installation guidelines may affect warranty coverage.

Manitowoc remote systems are only approved and warranted as a complete new package. Warranty on the refrigeration system will be void if a new ice machine head section is connected to pre-existing (used) tubing or condensing units or vice versa.

⚠ WARNING

PERSONNEL INJURY POTENTIAL

Do not operate equipment that has been misused, abused, neglected, damaged, or altered/modified from that of original manufactured specifications.

⚠ WARNING

Prior to installation make sure that all bin adapters and ice deflectors

When using a non-Manitowoc ice storage system with Manitowoc ice machines, contact the manufacturer to assure their ice deflector is compatible with Manitowoc ice machines.

Verify Components

Next verify that you have all the correct components for the ice machine that is being installed

- Bin
- Adapters
- Kits
- Location

Installation Requirements

The location selected for the ice machine must meet the following criteria. If any of these criteria are not met, select another location.

➤Must have open site (gravity) drain available (see Water Supply and Drain Requirements).

➤Must have a grounded, polarized electrical power supply on a dedicated electrical circuit (only appliance on circuit). If GFCI (ground fault circuit interrupter) is required by your local electrical code, it must be breaker type, not outlet type.

➤Must have cold water supply line available at Ice Machine (see Water Supply and Drain Requirements).

➤Clearance and air temperatures must be met.

Head Section

- The air temperature must be at least 35°F (1.6°C), but must not exceed 110°F (43.4°C).
- The location must be free of airborne and other contaminants.
- The location must not be near heat-generating equipment or in direct sunlight.
- The location must not obstruct airflow through or around the ice machine.

Clearances

Top 5” (12.7 cm) is recommended for efficient operation and removal of top cover/servicing.

Sides 5” (12.7 cm) is recommended for efficient operation and servicing. There is no minimum clearance required.

Back 3” (7.6 cm) required when routing electrical inlet, water inlet and refrigeration tubing out of the top of the unit.
5” (12.7 cm) required when routing all connections out the back.

Location of Condensing Unit

- The air temperature must be at least -20°F (-28.9°C) but must not exceed 130°F (54.4°C).
- *CVD675/CVD1185/CVD2075 Only* - The air temperature must be at least -20°F (-28.9°C) but must not exceed 120°F (48.9°C).
- *CVD1486 Only*- The air temperature must be at least 50°F (10°C) but must not exceed 110°F (43°C).
- The location must not allow exhaust fan heat and/or grease to enter the condenser.
- The location must not obstruct airflow through or around the condensing unit.

Condensing Unit Clearances

CVD675/CVD885/CVD1085/CVD1185/CVD2075

Top/Sides

There is no minimum clearance required, although 6” (15.2 cm) is recommended for efficient operation and servicing only.

Front/Back

48” (122 cm)

CVD1285/CVD1485/CVD1885

Top/Sides

There is no minimum clearance required, although 6” (15.2 cm) is recommended for efficient operation and servicing only.

Front

24” (61 cm)

Back

48” (122 cm)

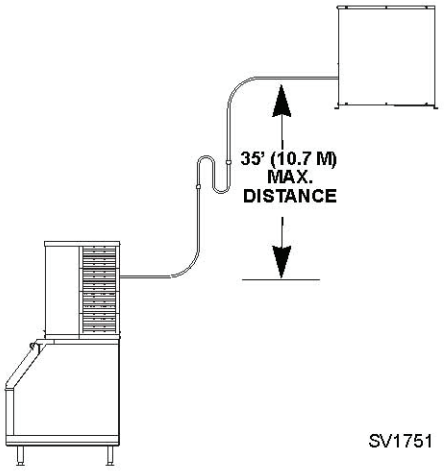
CVD1486 ONLY

Top - 5” (12.7 cm) is required for efficient operation and servicing.

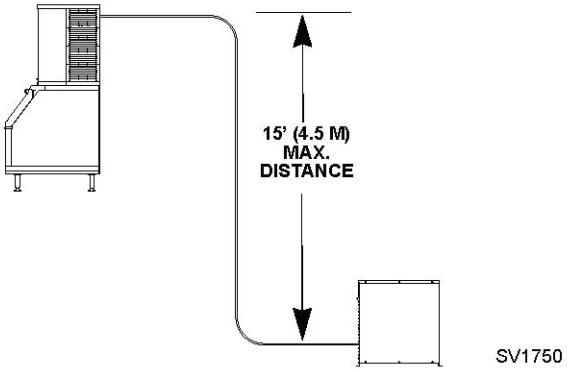
Front/Back/Sides - 12” (30.5 cm)

CVD Rise & Drop

Verify the Condensing Unit and Ice Machine Head Section are within the guidelines



35 feet (10.7 m) Rise: The maximum distance the CVD® condensing unit can be above the ice machine.



15 feet (4.5 m) Drop: The maximum distance the CVD® condensing unit can be below the ice machine.

Electrical Service

Requirements

- All electrical work, including wire routing and grounding, must conform to local, state and national electrical codes. The following precautions must be observed: The ice machine must be grounded.
- A separate fuse/circuit breaker must be provided for each condensing unit.
- A qualified electrician must determine proper wire size dependent upon location, materials used and length of run (minimum circuit ampacity can be used to help select the wire size).
- The maximum allowable voltage variation is +/-10 of the rated voltage at ice machine start-up (when the electrical load is highest).
- Check all green ground screws in the control box and verify they are tight before starting the ice machine.

Head Section Electrical

Ice Machine	Voltage Phase Cycle	Maximum Fuse/Circuit Breaker	Total Amps	**Minimum Wire Size Required by Manitowoc	Minimum Breaker Size Required by Manitowoc
S0600C	115/1/60 230/1/50	15 amp 15 amp	1.1 0.6	#14 Solid Copper Conductor	15 amp 15 amp
S0850C	115/1/60 230/1/50	15 amp 15 amp	1.1 1.5	#14 Solid Copper Conductor	15 amp 15 amp
IB0620C **IB0820C** **IB1020C**	115/1/60 230/1/50	15 amp 15 amp	1.4 0.8	#14 Solid Copper Conductor	15 amp 15 amp
S1000C	115/1/60 230/1/50	15 amp 15 amp	2.5 1.5	#14 Solid Copper Conductor	15 amp 15 amp
S1200C	115/1/60 230/1/50	15 amp 15 amp	2.5 1.5	#14 Solid Copper Conductor	15 amp 15 amp
S1470C **S1870C** **S2070C**	115/1/60 208-230/1/60 230/1/50*	15 amp 15 amp 15 amp	1.1 0.6 0.6	#14 Solid Copper Conductor	15 amp 15 amp 15 amp

* Not available on S2070C models.

** All conductors must be solid copper wire

Due to continuous improvements, this information is for reference only. Please refer to the ice machine and/or condensing unit serial number tags to verify electrical data. Serial tag information overrides information listed here.

CVD Electrical

Condensing Unit	Voltage/Phase/Cycle	Maximum Fuse/ Circuit Breaker	Minimum Circuit Amps	**Minimum Wire Size Required by Manitowoc	Minimum Breaker Size Required by Manitowoc
CVD0675	208-230/1/60 208-230/3/60 230/1/50	15 amp 15 amp 15 amp	9.6 7.3 9.0	#14 Solid Copper Conductor #14 Solid Copper Conductor #14 Solid Copper Conductor	15 amp 15 amp 15 amp
CVD0885	208-230/1/60 208-230/3/60 230/1/50	20 amp 15 amp 20 amp	11.8 9.1 10.0	#12 Solid Copper Conductor #14 Solid Copper Conductor #12 Solid Copper Conductor	20 amp 15 amp 20 amp
CVD1085	208-230/1/60 208-230/3/60 230/1/50	20 amp 15 amp 20 amp	12.5 9.4 10.9	#12 Solid Copper Conductor #14 Solid Copper Conductor #12 Solid Copper Conductor	20 amp 15 amp 20 amp
CVD1185	208-230/1/60 208-230/3/60 230/1/50	25 amp 15 amp 20 amp	15.7 10.8 11.2	#12 Solid Copper Conductor #14 Solid Copper Conductor #12 Solid Copper Conductor	25 amp 15 amp 20 amp
CVD1285	208-230/1/60 208-230/3/60 230/1/50	25 amp 20 amp 20 amp	14.7 10.6 11.7	#10 Solid Copper Conductor #12 Solid Copper Conductor #12 Solid Copper Conductor	25 amp 20 amp 20 amp
CVD1485	208-230/1/60 208-230/3/60 230/1/50	20 amp 15 amp 30 amp	20.0 15.0 20.0	#8 Solid Copper Conductor #10 Solid Copper Conductor #8 Solid Copper Conductor	20 amp 15 amp 30 amp
CVD1486	208-230/1/60 208-230/3/60 230/1/50	20 amp 15 amp 20 amp	20.0 15.0 20.0	#10 Solid Copper Conductor #12 Solid Copper Conductor #12 Solid Copper Conductor	20 amp 15 amp 20 amp
CVD1885	208-230/1/60 208-230/3/60 230/1/50	40 amp 25 amp 30 amp	25.0 20.0 20.0	#8 Solid Copper Conductor #10 Solid Copper Conductor #8 Solid Copper Conductor	40 amp 25 amp 30 amp
CVD2075	208-230/1/60 208-230/3/60	50 amp 40 amp	40.0 30.0	#10 Solid Copper Conductor #10 Solid Copper Conductor	50 amp 40 amp

Verify Head Section

Always verify that you have received the correct ice machine & condensing unit prior to installing

Model Number on Box

Inspection

- Remove carton & inspect ice machine and condensing unit for shipping damage

Remove all Panels

Single Evaporator - Hinged Front Door Removal

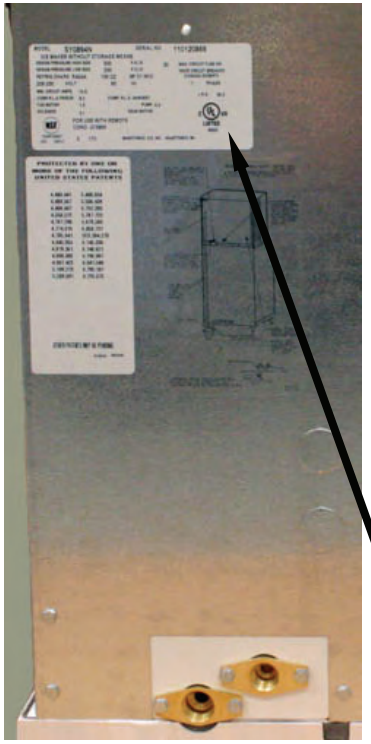
- Loosen Screws on the left and right front panels
- Open the left front door 45 degrees and support with hand
- Depress the top pin to disengage door, tilt forward
- Lift off of bottom pin
- The right front panel lifts up to disengage
- Remove the top cover and the remaining panels

Remove all Panels

Dual Evaporator - Front Panel Removal

- Loosen Screws on the front panel
- The entire front panel lifts up to disengage
- Remove the top cover and the remaining panels

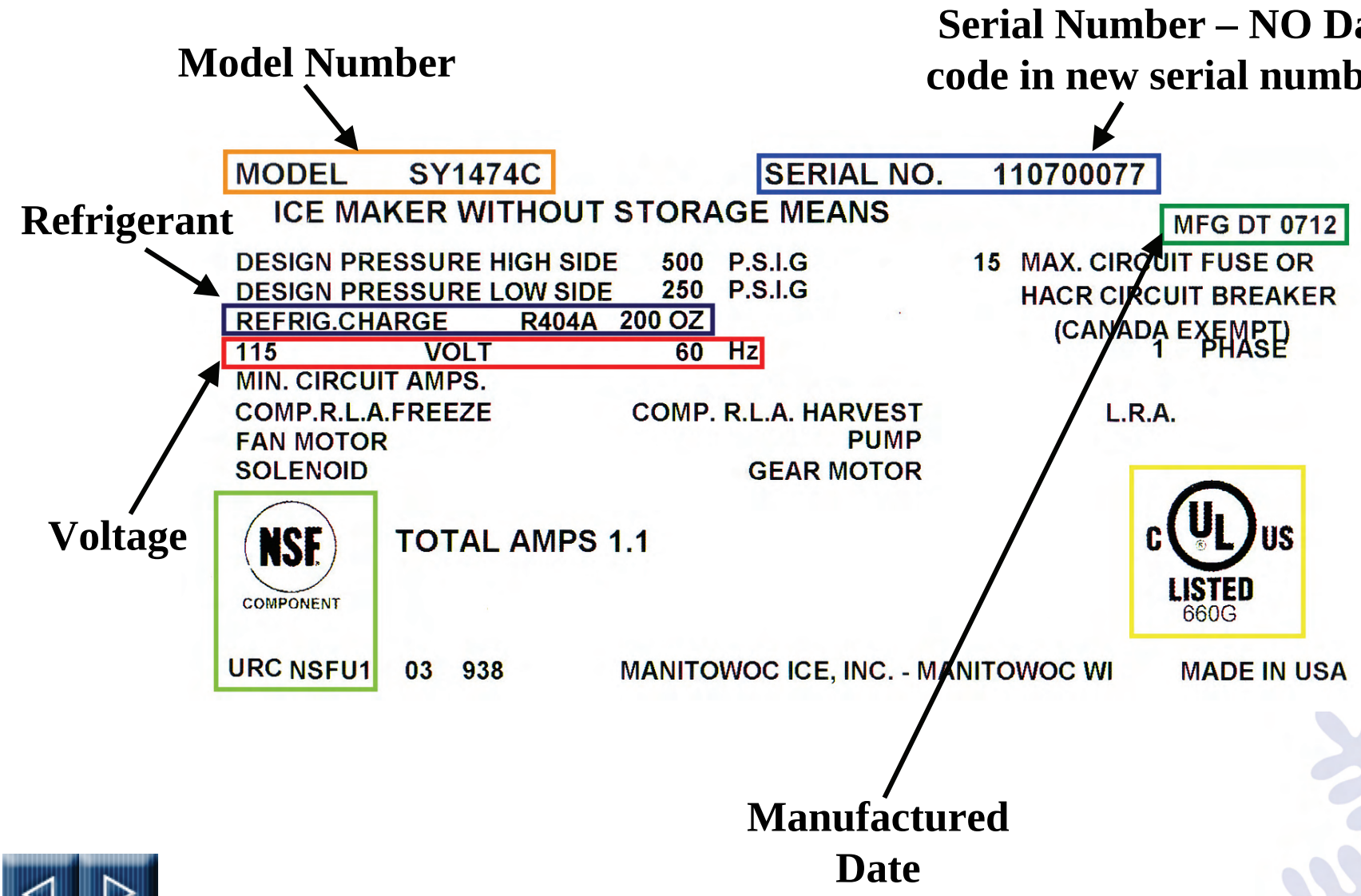
Model/Serial Number Location



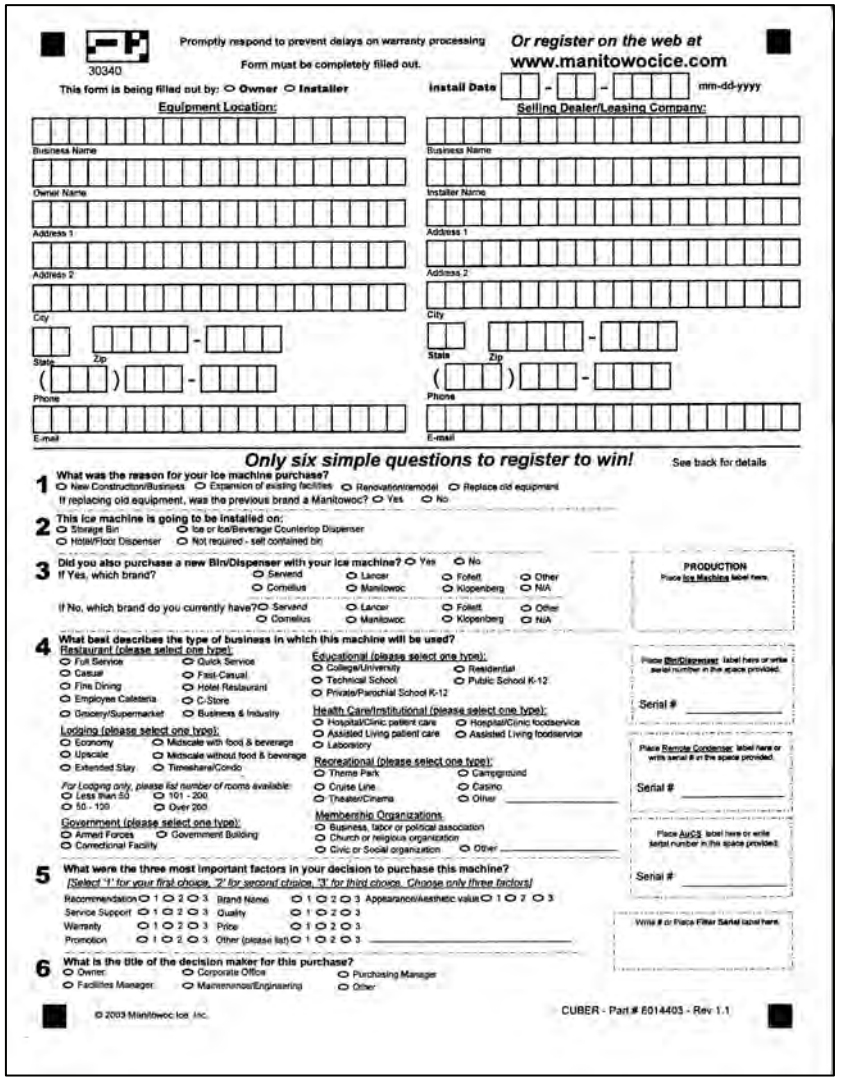
Back of
Ice Machine

Inside of
Ice Machine

Example Data Plate



Warranty Registration



Promptly respond to prevent delays on warranty processing
Form must be completely filled out.
30340
Or register on the web at
www.manitowocice.com

This form is being filled out by: ○ Owner ○ Installer
Install Date ___ - ___ - ____ mm-dd-yyyy

Equipment Location: | **Selling Dealer/Leasing Company:**

Business Name
Owner Name / Installer Name
Address 1
Address 2
City
State Zip
Phone
E-mail

Only six simple questions to register to win! See back for details

1 What was the reason for your ice machine purchase?
○ New Construction/Business ○ Expansion of existing facilities ○ Renovation/remodel ○ Replace old equipment
If replacing old equipment, was the previous brand a Manitowoc? ○ Yes ○ No

2 This ice machine is going to be installed on:
○ Storage Bin ○ Ice or Ice/Beverage Countertop Dispenser
○ Hotel/Floor Dispenser ○ Not required - self contained bin

3 Did you also purchase a new Bin/Dispenser with your ice machine? ○ Yes ○ No
If Yes, which brand? ○ Servend ○ Lancer ○ Follett ○ Other ○ Cornelius ○ Manitowoc ○ Klopenberg ○ N/A
If No, which brand do you currently have? ○ Servend ○ Lancer ○ Follett ○ Other ○ Cornelius ○ Manitowoc ○ Klopenberg ○ N/A

4 What best describes the type of business in which this machine will be used?
Restaurant (please select one type): ○ Full Service ○ Quick Service ○ Casual ○ Fast-Casual ○ Fine Dining ○ Hotel Restaurant ○ Employee Cafeteria ○ C-Store ○ Grocery/Supermarket ○ Business & Industry
Lodging (please select one type): ○ Economy ○ Midscale with food & beverage ○ Upscale ○ Midscale without food & beverage ○ Extended Stay ○ Timeshare/Condo
For Lodging only, please list number of rooms available: ○ Less than 50 ○ 101 - 200 ○ 50 - 100 ○ Over 200
Government (please select one type): ○ Armed Forces ○ Government Building ○ Correctional Facility
Educational (please select one type): ○ College/University ○ Residential ○ Technical School ○ Public School K-12 ○ Private/Parochial School K-12
Health Care/Institutional (please select one type): ○ Hospital/Clinic patient care ○ Hospital/Clinic foodservice ○ Assisted Living patient care ○ Assisted Living foodservice ○ Laboratory
Recreational (please select one type): ○ Theme Park ○ Campground ○ Cruise Line ○ Casino ○ Theater/Cinema ○ Other
Membership Organizations: ○ Business, labor or political association ○ Church or religious organization ○ Civic or Social organization ○ Other

5 What were the three most important factors in your decision to purchase this machine?
[Select '1' for your first choice, '2' for second choice, '3' for third choice. Choose only three factors]
Recommendation ○1 ○2 ○3 | Brand Name ○1 ○2 ○3 | Appearance/Aesthetic value ○1 ○2 ○3
Service Support ○1 ○2 ○3 | Quality ○1 ○2 ○3
Warranty ○1 ○2 ○3 | Price ○1 ○2 ○3
Promotion ○1 ○2 ○3 | Other (please list) ○1 ○2 ○3

6 What is the title of the decision maker for this purchase?
○ Owner ○ Corporate Office ○ Purchasing Manager ○ Facilities Manager ○ Maintenance/Engineering ○ Other

PRODUCTION
Place Ice Machine label here.
Place Bin/Dispenser label here or write serial number in the space provided.
Serial # _____
Place Remote Condenser label here or write serial # in the space provided.
Serial # _____
Place AuCS label here or write serial number in the space provided.
Serial # _____
Write # or Place Filter Serial label here.

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Warranty Registration Form

Manitowoc — America's #1 Selling Ice Machine

Home | Products | Service Support | Sales Support | Kooliare™ | Downloads
About Us | News | Merchandising | Extranets | Consultants | Search

REGISTER YOUR NEW PRODUCT UNDER THE MANITOWOC WARRANTY.

IT IS NECESSARY THAT YOU VALIDATE YOUR PARTS AND SERVICE WARRANTY BY COMPLETING ALL THE INFORMATION REQUESTED BELOW

SERIAL NUMBER:
COND UNIT:
LESSOR (IF APPLIES):
INSTALLATION LOCATION NAME:
ADDRESS:
CITY: STATE:
ZIP: COUNTRY:
PHONE NUMBER: (US and Canada only)
SELLING COMPANY:

DATE INSTALLED
MONTH | DAY | YEAR

PLEASE CHECK TYPE OF INSTALLATION
1 ○ Restaurant/Bar
2 ○ School/Institution
3 ○ Hotel/Motel
4 ○ Hospital/Nursing Home
5 ○ C-Store/Grocery
6 ○ Other

Equipment purchased for
7 ○ New Construction/Remodel
8 ○ Add-on
9 ○ Replacement

THIS WARRANTY REGISTRATION CARD MUST BE SENT TO MANITOWOC WITHIN (5) FIVE DAYS FROM INSTALLATION DATE.

Thank You!
MANITOWOC ICE, INC.

Submit Cancel

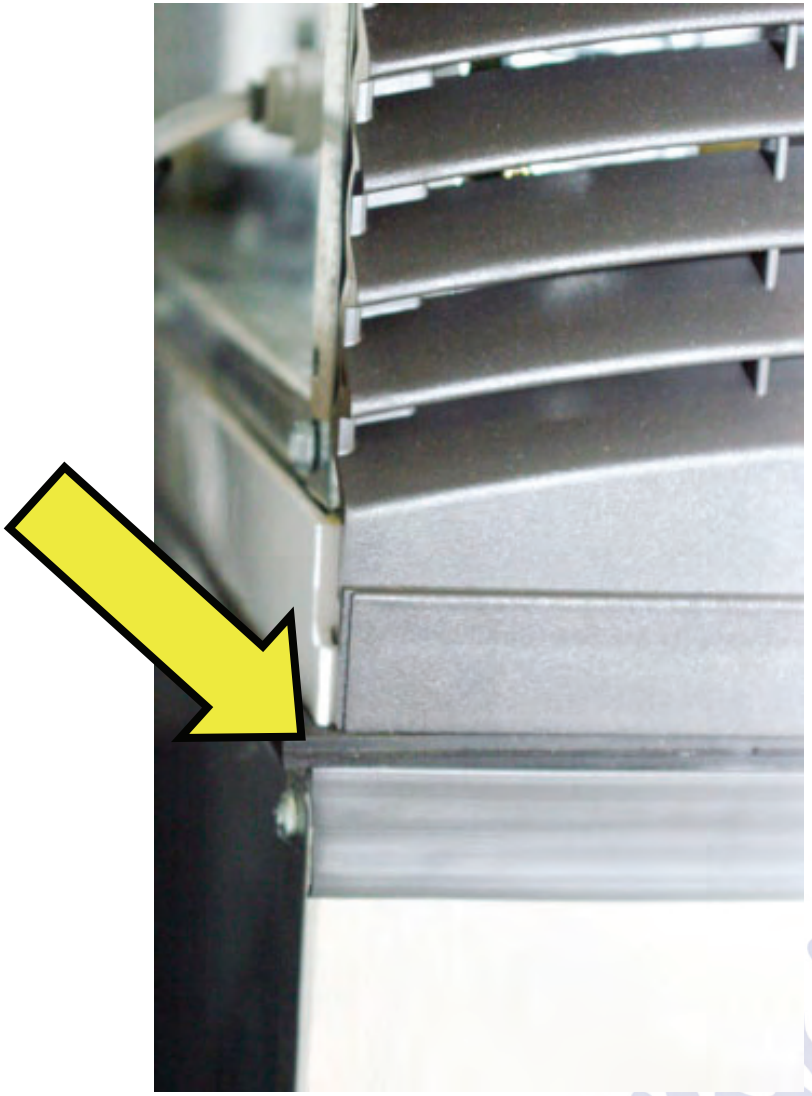
Website

Level Bin

- Thread leveling leg into base of bin
- Level the bin to assure the bin door closes and seals properly

Mount on Bin

- Place the ice machine on top of the bin.
- Make sure ice machine is flush with the sides of the bin.



Ice Machine Wiring

- Install strain relief and proper wiring to ice machine head section

Water Connections

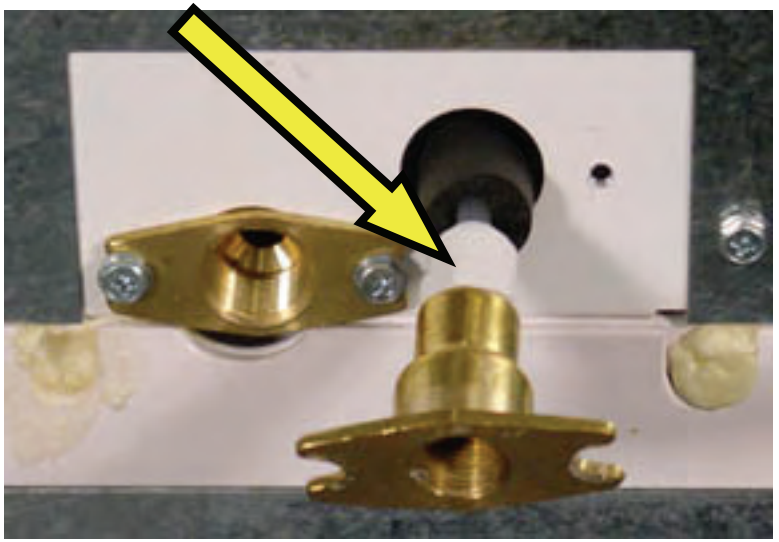
Location	Water Temperature	Water Pressure	Ice Machine Fitting	Tubing Size Up to Ice Machine Fitting
Ice Making Water Inlet	35°F (1.6°C) Min. 90°F (32.2°C) Max.	20 psi (1.4 bar) Min. 80 psi (5.5 bar) Max.	3/8” Female Pipe Thread	3/8” (9.5 mm) min. inside diameter
Water Cooled Condenser	35°F (1.6°C) Min. 90°F (32.2°C) Max	20 psi (1.4 bar) Min. 150 psi (10.3 bar) Max. **High Pressure Option** 20 psi (1.4 bar) Min. 350 psi (24.1 bar) Max.	1/2” Female Pipe Thread	1/2” (12.7 mm) min. inside diameter
Ice Making Water Drain	---	---	1/2” Female Pipe Thread	1/2” (12.7 mm) min. inside diameter
Bin Drain	---	---	3/4” Female Pipe Thread	3/4” (19.1 mm) min. inside diameter
Large Capacity Bin Drain	---	---	1” Female Pipe Thread	1” (25.4 mm) min. inside diameter

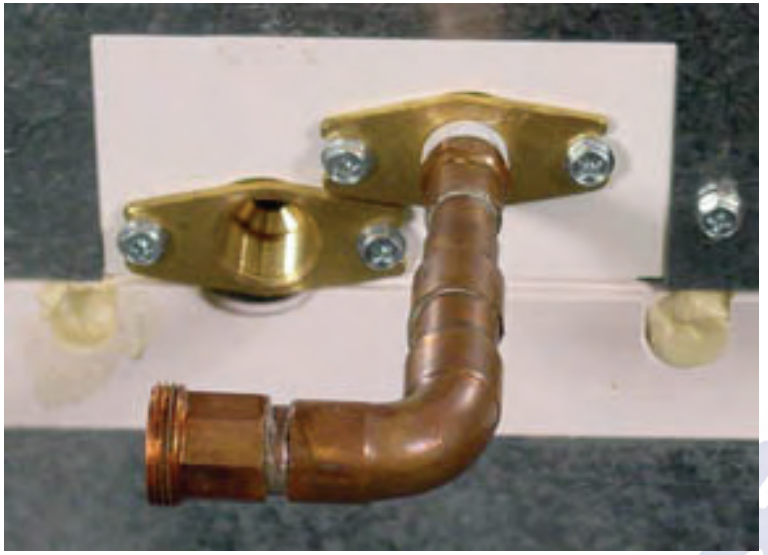
Water Supply

- Do not connect the ice machine to a hot water supply.
- If water pressure exceeds the maximum recommended pressure (80 psi), obtain a water pressure regulator from your Manitowoc distributor.

Water Fittings

- Do not apply heat (torch) to the Water Inlet Fitting or Drain Fitting
- Solder Water Connection before installing on ice machine
- Water fittings have plastic and will melt when heated
- Union must be installed to allow removal of ice machine





Potable Water Supply

- Installation with Water Filter
  - Install union, additional shut-off is not required
  - Copper or plastic tubing may be used
  - Refer to Arctic Pure Install Use and Care manual for complete installation instructions

Potable Water Supply

- Water Installation without filter
  - Install union and shut-off valve

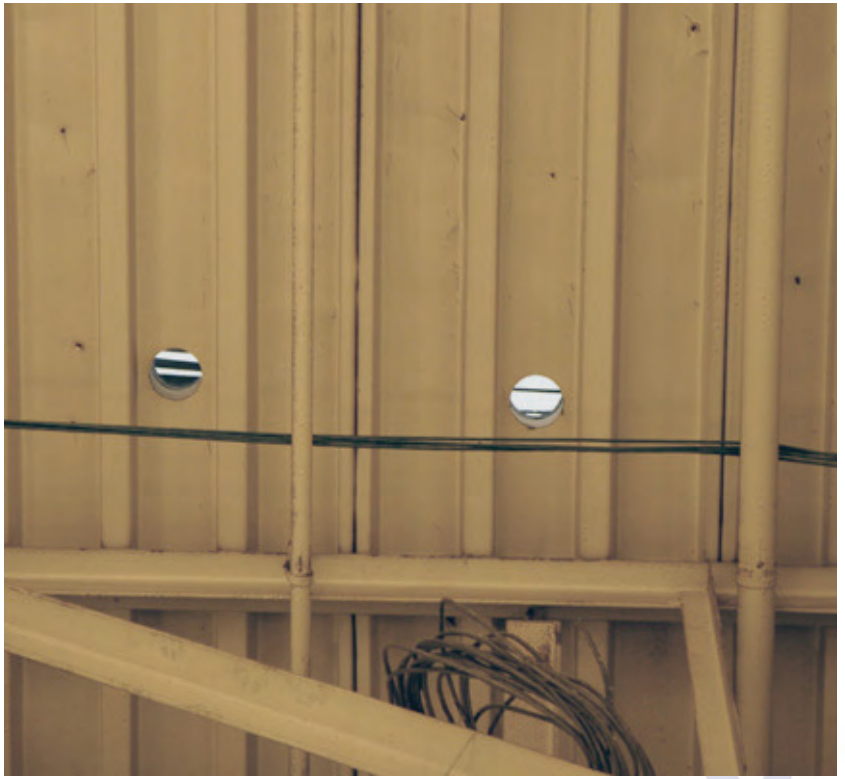
Head Section Drains

- Install 18” Vent Tubes
  - Ice Machine & Bin drains must be run separately
- Drains Must:
  - Be run separately
  - Have a minimum pitch of 1.5 inches every 5 feet
- Floor Drain must be large enough to accommodate drainage from all drains

Roof Penetration

Verify Ice Machine and CVD® Condensing Unit Locations Are Within Guidelines.

- Prior to installation of the ice machine head section and CVD® condensing unit be sure that the distance between then is within the line set routing guidelines.



Roof/Wall Penetration

- If required, cut a 3-inch (76.2 mm) circular hole in the wall or roof for routing of refrigeration tubing.
  A qualified person must perform all roof penetrations.

Lift Unit

- Trained & qualified personnel are required for rigging and lifting

Curb & Pitch Pockets

- The type of curbs and pitch pockets are dependant on the roofing material.
- Contact a roofing company to install the curb & pitch pockets.

Place Units

- Place condensing units on curb and secure
- An electrician will determine wire size & install disconnect for each condensing unit

Refrigeration System Installation

- The ice machine head section contains refrigerant charge. The ice machine head section contains 3 refrigeration valves that **must remain closed** until proper installation of the line sets is completed.
- Disconnect electrical power to the ice machine head section and CVD® condensing unit before proceeding.

CVD Line Sets

QuietQube® Ice Machine	Remote Single Circuit Condenser	Line Set*
S0600C IB620C	CVD675	RC-21 RC-31 RC-51
S0850C IB820C	CVD885	
S1000C	CVD1085	
IB1020C	CVD1185	RC-20 RC-30 RC-50
S1200C	CVD1285	
S1470C	CVD1485 CVD1486	
S1870C	CVD1885	
S2070C	CVD2075	

*Line Set	Suction Line	Liquid Line	Insulation Thickness
RC 21/31/51	5/8 inch (15.9 mm)	3/8 inch (9.5 mm)	1/2”(13mm) Suction Line 1/4” (7mm) Liquid Line
RC 20/30/50**	3/4 inch (19.1 mm)	1/2 inch (12.7 mm)	1/2”(13mm) Suction Line 1/4” (7mm) Liquid Line

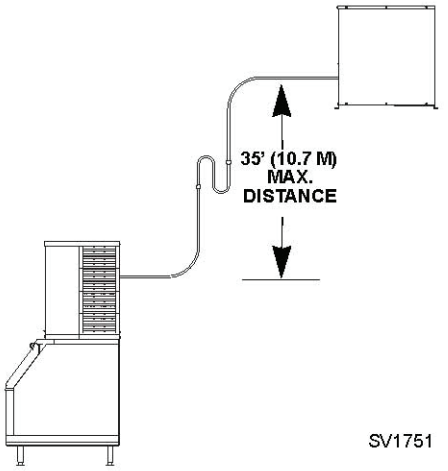
**NOTE: The CVD2075 has a suction line fitting of 7/8” and a liquid line fitting of 5/8”. Since the line set is sized differently, please use the provided bushings to properly connect the line set to the CVD Condensing Unit.

Line Set Length, Rise & Drop

LINE SET LENGTH

100 feet (30.5 m) Length:

The maximum measured length the line set can be. The receiver is designed to hold a charge sufficient to operate the ice machine in ambient temperatures between -20°F (-28.9°C) and 130°F (54.4°C)*, with line set lengths of up to 100 feet (30.5 m).



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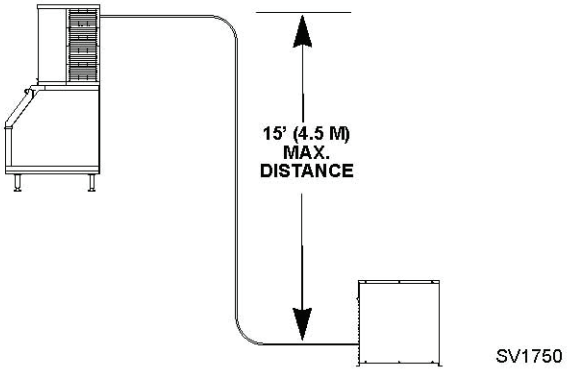


15 feet (4.5 m) Drop: The maximum distance the CVD® condensing unit can be below the ice machine.

Suction Line Oil Traps

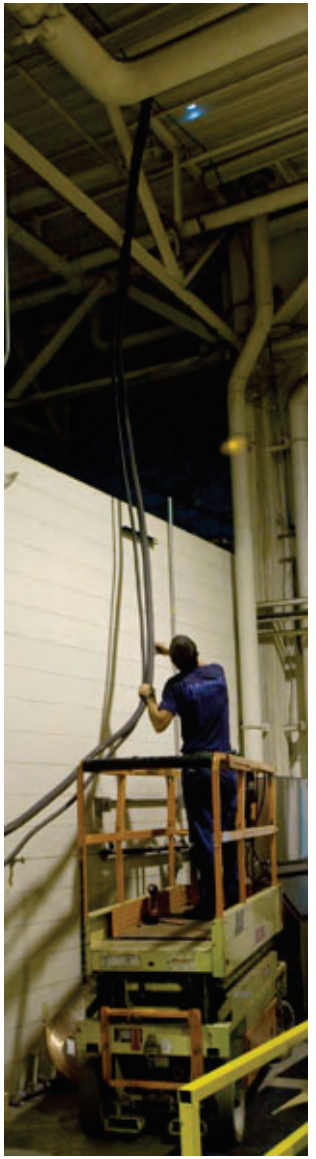
0 to 20 feet (0 to 6.1 m) Rise: The ice machine head section has one oil trap built in which allows for a maximum condenser rise of 20 feet (6.1 m) without additional traps in the suction line.

21 to 35 feet (6.4 to 10.7 m) Rise: The suction line requires an additional Oil Trap (“S” type) to be installed. Install the trap as close as possible to midpoint between the ice machine head section and CVD condensing unit. See chart below for kits.

Model	S-Trap Kit Number	Tubing Size
S600C S850C S1000C	K00172	5/8 inch (15.9 mm)
S1200C S1470C S1870C S2070C	K00166	3/4 inch (19.1 mm)

Line Set Installation

- Route refrigeration tubing
- The maximum measured length the line set can be is 100’ (30.5 m) (no exceptions)
- The maximum amount of line set which can be exposed on the rooftop is 25% of the total length of the line set.
- Do not expose more line set than necessary to outdoor ambient



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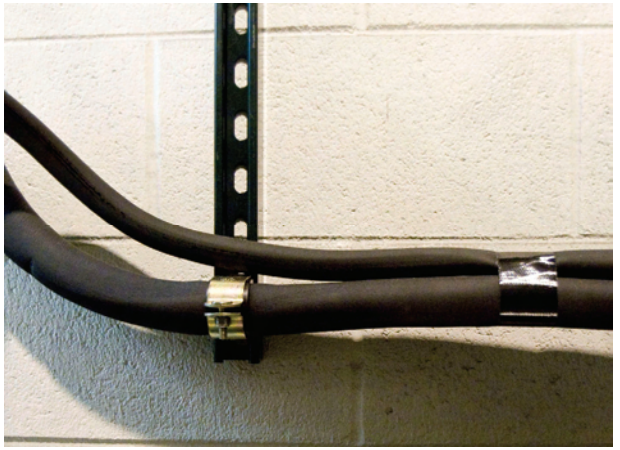
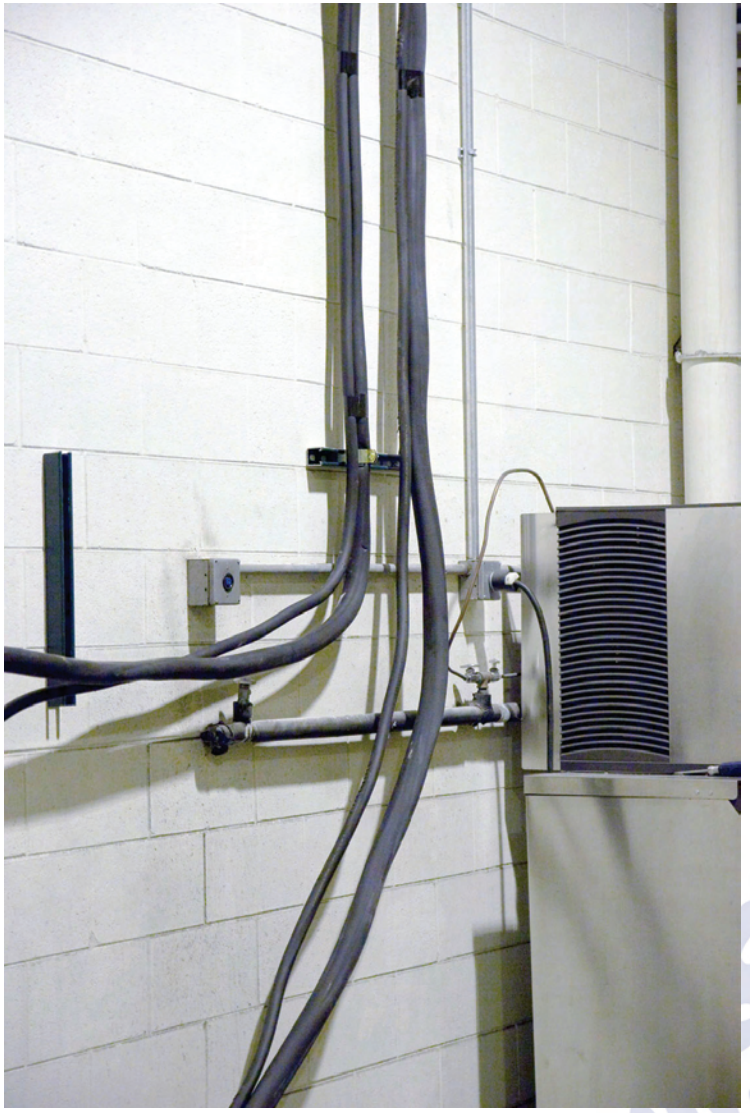
Secure Line Set

- Secure Line Set as Needed
- Do not crush/compress insulation





Connect the Line Set

Ice Machine

The line set can be routed for entry through the top or rear of the ice machine head section.

- ➢ Top routing requires the cover to be trimmed.
- ➢ Rear routing may require the use 90° elbows on some models.

The line set shut off valves at the back of the ice machine must remain closed and be protected from heat during the brazing process. Wrap the valves in a wet rag or other type of heat sink prior to brazing. Cool braze joint with water immediately after brazing to prevent heat migration to the valve.

Connect the Line Set

Condensing Unit

- The condensing unit ships from the factory pressurized with a 50/50 mixture of nitrogen/helium. Bleed off pressure from both suction and liquid line access ports prior to cutting into refrigeration lines.
- The compressor oil rapidly absorbs moisture. **Be prepared** to complete line set installation and start your evacuation process in order to minimize the time the compressor is exposed to the atmosphere. (Maximum amount of time the system can be exposed to the atmosphere is 15 minutes). The line set can be routed for entry through the front or left side of the condensing unit.
  - Remove knockout for preferred location.
  - Insert supplied plastic bushings in knockout holes to prevent tubing from contacting sheet metal.
  - Use the supplied 90° elbows to route tubing.
  - Cut the tubing ends of the suction and liquid lines and braze the line sets to the condensing unit.

Pressure Test & Evacuate

Leave the line set shut off valves closed (front seated). Pressure test the line sets and CVD condensing unit with 150 psig of dry nitrogen. Add nitrogen at the line set shut off valves located at the back of the ice machine. Complete the pressure test, verify no leaks are present and remove the nitrogen from the system before connecting the vacuum pump. Connect a vacuum pump to both of the line set shut off valves located at the back of the ice machine head section. Evacuate to 500 microns (or less). To completely evacuate the CVD condensing unit, continue the evacuation for 30 minutes after reaching the 500 micron point.

Open the Valves Prior to Starting

Open The Valves Prior To Starting The Ice Machine.

A. Slowly backseat (open-turn counterclockwise) the suction line shut off valve.

B. Slowly backseat (open-turn counterclockwise) the liquid line shut off valve.

C. Slowly backseat (open-turn counterclockwise) the receiver service valve.

NOTE: You will not hear refrigerant flow when the valves are opened. Refrigerant will not flow until the toggle switch is placed in the ice position and the solenoid valve opens.

Leak Check the System

- Leak check the new line set connections at the ice machine head section, condensing unit and S trap as well as all factory joints throughout the entire system.
- Disconnect power to the CVD condensing unit. Place the ICE/OFF/CLEAN toggle switch into the ICE position. This allows the low side and high side pressures to equalize.
- Place the ICE/OFF/CLEAN toggle switch in the OFF position. Connect power to the CVD condensing unit and allow system to pump down.

Insulation Requirements

The following insulation requirements prevent condensation at 90°F (32.2°C) ambient 90% Relative Humidity. If higher humidity is expected, increase insulation thickness.

Suction Line	Liquid Line	Min. Insulation Thickness
3/4 inch (19.1 mm)	1/2 inch (12.7 mm)	1/2”(13mm) Suction Line 1/4” (7mm) Liquid Line
5/8 inch (15.9 mm)	3/8 inch (9.5 mm)	
7/8 inch (22.2 mm)	5/8 inch (15.9 mm)	3/4” (19mm) Suction Line 1/4” (7mm) Liquid Line

Refrigerant Charge

The ice machine is pre-charged with refrigerant.

Additional refrigerant may be required on some models, when the line set length is between 50’ - 100’.

Important

This information is for reference only. Refer to the ice machine serial number tag to verify the system charge. Serial plate information overrides information listed on this page.

Model	Condensing Unit	Refrigerant Charge	Line Set Length
S0600C IB0600C	CVD0675	11 lbs. 5 kg.	0-100 ft. 0-30 M
S0850C	CVD0885	11 lbs. 5 kg.	0-50 ft. 0-15 M
		12 lbs. 5.44 kg	51-100 ft. 15-30 M
IB0800C	CVD885	12 lbs. 192 oz.	0-100 ft. 0-30 M
S1000C	CVD1085	11 lbs. 5 kg	0-50 ft. 0-15 M
		12 lbs 5.44 kg	51-100 ft. 15-30 M
IB1000C	CVD1085	12 lbs. 192 oz.	0-100 ft. 0-30 M
S1200C	CVD1285	11 lbs. 5 kg	0-50 ft. 0-15 M
		12 lbs 5.44 kg	51-100 ft. 15-30 M
S1470C	CVD1485	12.75 lbs 5.44 kg	0-100 ft. 0-30 M
	CVD1486	12.75 lbs 5.44 kg	0-100 ft. 0-30 M

Final Set-Up

Installation Checklist

- Complete the installation checklist in the Installation, Use & Care Manual

Installation Checklist

- ☐ Is the Ice Machine level?
- ☐ Has all of the internal packing been removed?
- ☐ Have all of the electrical and water connections been made?
- ☐ Has the supply voltage been tested and checked against the rating on the nameplate?
- ☐ Is there proper clearance around the ice machine for air circulation?
- ☐ Has the ice machine been installed where ambient temperatures will remain in the range of 35° - 110°F (2° - 43°C)?
- ☐ Has the ice machine been installed where the incoming water temperature will remain in the range of 35° - 90°F (2° - 32°C)?
- ☐ Are the ice machine and bin drains separately vented?
- ☐ Are all electrical leads free from contact with refrigeration lines and moving equipment?
- ☐ Has the owner/operator been instructed regarding maintenance and the use of Manitowoc Cleaner and Sanitizer?
- ☐ Has the warranty registration card been sent to the factory?
- ☐ Has the ice machine and bin been sanitized?
- ☐ IB Only - Has the thermostat kit been installed and tested?
- ☐ IB Only - Is the adapter secured to the dispenser?
- ☐ Has the ice machine receiver service valve been opened 100%?
- ☐ Does the condenser fan motor operate properly after start-up?
- ☐ Have all the refrigeration fittings and joints been leak checked?
- ☐ Is the line set routed properly?
- ☐ Is a refrigeration oil trap (S-trap) installed if the condenser is installed 21 to 35 feet (6 to 11m) above the ice machine head?
- ☐ Has the CVD® condensing unit been installed to prevent any roofing damage?
- ☐ Have the refrigeration lines been insulated and secured properly to prevent vibration?
- ☐ Has the remote condensing unit been located where ambient temperatures will remain in the range of -20° to 130°F (-29° to 54°C)? *CVD675/CVD2075 Only* - The air temperature must be at least -20°F (-29°C) but must not exceed 120°F (49°C).
- ☐ Are the plastic bushings installed on the CVD® condensing unit to prevent refrigeration tubing from contacting the sheet metal panel?
- ☐ CVD1486 Only - Is the drain installed on the condensing unit?
- ☐ Is the condensing unit level?

Complete Installation

- Sanitize the Ice Machine
- Energize
- Verify Water Level
- Run 2 Freeze Cycles

S Model QuietQube® Ice Machines with CVD® Technology

Installation Quiz

Click Here to Launch